

THE AMERICAN RADIO RELAY LEAGUE, INC.

ADMINISTRATIVE HEADQUARTERS NEWINGTON, CONNECTICUT, U. S. A. 06111

QST
OFFICIAL ORGAN

September 19, 1977

Intruder Watch Memo 5-77

To all Intruder Watchers:

1. Attached to this memo is K6KA's consolidated feedback for the months of May and June.
2. Also attached is the latest roster of active Intruder Watchers. Again we would like to mention that an active Intruder Watcher is anyone who has submitted a report during the last six months.
3. Several IW'ers have asked, "what is MAYAK?" This is a Russian word meaning "beacon", and is used by them to identify their Second Program, from Radio Moscow. This second program is used as a regional program, with short news on the half hour, and good music the other times, unless the regional station inserts local material. This service uses six second ticks on the hour and half hour, and a somewhat different musical "interval signal" identification from that used on the First Program and Foreign Service, which is commonly heard on various services. There is a six-note musical interval signal used on the Radio Peace and Progress transmissions, such as those to South America (possibly on 7230 and 7240 kHz) in the 0030-0430Z period.

USSR frequently uses the MAYAK audio to jam, particularly the Russian programs originating at Radio Peking. This is done by overmodulating some 500%, causing almost complete loss of MAYAK modulation during jamming, though it often can be matched on peak audio with 7200 kHz clear broadcast (Irkutsk?) mornings for identification. It is frequently used on 7010, 7020, and 7035kHz. Sometimes these transmitters create families of spurious signals up or down the band, nearly white-noise, and sometimes additional spurious signals have an a.c. sound.-K6KA

Sincerely yours,

Hal Steinman

Harold M. Steinman, K1FHN
Assistant Manager
Membership Services Department

FEEDBACK FOR MAY AND JUNE

7000	1500-2200Z	7f harmonic from WLMS-AM, Leominster, MA. A3
7000-7010		clicks, etc., from stations on 6992, 6997, 6985 kHz
7010	1830-2255	R. Peking, daily.
7010.5	1050	KKN5Ø (C.I.A. HQ) "QRA de KKN5Ø QSK 32/41/43..", spurious from 6925 kHz.
7010	2210	de XG1D in Spanish. A1.
7013	0248	vvv de UNP. A1.
7015	0302	Music, Broadcasting.
7018	1130	de V80. A1.
7019.7	0418	Foreign language BC.
7024	0950, 1100, 1300	1/2 and 1 kHz shift, alerted. USSR characteristics.
7025	1100	Oriental BC with RTTY also present. R. Peking.
7030	2145	English with western music.
7035	1830-2255 1734	R. Peking. jammed with USSR MAYAK program overmodulated.
7040	1400	"CQ de BF5 V", China, as on 14204 kHz. alerted.
7055	1830-2230	R. Peking.
7060	1248-1335	R. Peking.
7070	1300-0200	CRFB Toronto, 7f harmonic.
7070	1100	Often, Hawaiian-type music. (VK has R. Indonesia i.d. here)
7080	1730-2130	Peking via Tirana relay. At 0400Z also.
7088-7090	1800-2230	in Italian. R. Tirana.
7095	1100-1700	R. Peking internal service, Chinese.
7100	1500-0400 1355-1430	R. Moscow. Registered here but LSB in exclusive band.
7115	0330	R. Moscow in English re listeners' letters from USA, Canada.
7120	2300-0330	R. Peking via Tirana relay; English; Spanish to Region 2, simo 9500, 9780 kHz.
7120	0258	R. Cairo? response to letter from Springfield, MA.
7125	0159	R. Peking in English to America.
7150	2000-0330	R. Moscow adn Kiev, English, possibly to R. 2
7165	0340	R. Moscow in English, Apparently No. Amer. Svc.
7195	1730-2100	Bucharest, Romania; English ann. at 2130Z.
7200	0300	VOA, Woofferton, England. Very accurate freq. Assigned, for coverage in Europe, thus legal but needs more antenna protection for Region 2.
7205	1700-0400	R. Moscow in English; 0255Z R. Kiev to No. America.
7205	1000-1100	R. Pyongyang, N. Korea, to R 2 daily. Check around 9.77, 9.57 simo.
7212	1330-1404	A1 Cyrillic morse, apparently NE Siberia to ships. Mentioned "UMS".
7215	1700-0100	includes R. Budapest to R 2 in Spanish.

7250	0042	R. Moscow, N. Am. Svc. Gave sources of publ. in 3 states.
7260 ^{±10}		China. A2. a.c. or dotter, interrupted for buzzer sign "oo oo". Starts early, still on at 1400Z.
7280	2200-0300	Chile. Low-freq. tone. not jamming or USSR pulses.
7290	2000-2300	R. Moscow in English.
7300	2200-0400	R. Tirana in English, partly to No. Amer.
14000	2218	A1. UFN.
14000	0500	A1. BEA2.
14002	1345	Spruious each 10 kHz down for 50 kHz.
14002	Most hours when on.	USSR phase-mod.-pulse multichannel, upper guard carrier on 14003.38. Others at times include 14002 14055 14090 14102 14114 14170 14234 14145 14282 14316 14342 14138 kHz. Both from N Europe, NE Siberia
14003.5	1900	DTD36. A1.
14006	1300	AAM4 (USA) F1.
14007	0021	A3, Conversation re flight to Norfolk, VA.
14008	Most hours.	F1 500Hz shift. FCC complained.
14010/14015	1200-1600	A3, Guantanamo Bay AT&T telephone, reported as Cable Wireless, Ltd., and as All Americas Cable & Radio, Inc., spurious LINCOMPLEX system from 13765 kHz, repaired with co-operation of AT&T monitoring in NJ.
14011	0010	A1, GF5 de UYXY, toward E. Asia.
14012	0011	A1, YHFB.
14014	0140	F1. QRA DBV6 DBV DBZ2. This used to be spurious from possibly below band. E. Germany.
14015	1400-1800	A2. Some hum. May be different stations. FPCC, AWA.
14016	Many hours.	F1. from NE Asia. Carrier, upshifting in morse or RTTY. Signed "de 2WTO" and "de YNTI". Also reported in Australia. USSR Procedure.
14017	0322	A1. JK or JD.
14020	0200-0530	F1 500 Hz shift.
14020	0130	A2. Noise may be 2f harmonic of 7010 kHz USSR MAYAK overmodulation jamming.
14021.5	0650-0752	Honolulu Radio, MET Broadcast.
14024	Many hours.	F1. 500 Hz shift. FCC complained to USSR.
14028.85	1401	A2. a.c. carrier from E. Asia. Noise at 0101Z may be 2f harmonic of MAYAK overmod. jamming on 7 MHz.
14031	1050-1500	F1/F6. 2 kHz shift in primary channel, upshifting 2 kHz to second channel. USSR.
14040	0400-0500	A1 Cyrillic morse, "de RJS" (ship-shore)
14040/41	0140-0500	F1/F6. 500 Hz and 2 kHz shifts.
14047	0010	A1 CQ VPO.
14050	1950	MAYAK overmod. jamming by USSR; simo 14070, 14260.
14053	0300	A1. 8PCX de GQWR.
14053	1304	A2. Smooth buzz, also on 13879.7, 13831, 13541, 13421.5, 13369.8 kHz.

14055	1525	A3J. USB count in "American" voice; audio tone.
14060	1734	USSR MAYAK overmod. jamming, simo 7035 kHz jamming, and 7200 in the clear (Irkutsk regional?).
14062/4	1300-1730	F1 1 kHz shift mainly.
14070	1330-2200	A3/A2. Noise and carriers, 2f harmonics of R. Peking or its USSR MAYAK-overmodulated jammer.
14072	1200-1830 0130-0530	F1. USSR 500 Hz shift RTTY. FCC complained.
14075	1209	A1. VDO, DGM, de ZFO.
14075	1415	F1. Spurious, synchronous RTTY, with hum. Toward Cuba.
14076	1500-1540	A1. BKLG de M6D6. From E. Asia.
14076/96	1330	F1. "ITVU de PSEK", Chinese digraphs used.
14079/86	2330-0001	A1. "KGA de XVW" Cuba. FCC complained.
14080	Many Hours.	F1. USSR RTTY, in line with Moscow.
14083	1551	BC station commentary, antenna indicates Europe.
14088	0200	F6. 1 kHz shift in primary channel, upshifting 500 Hz in procedure. USSR.
14090	0115-0318	A9. USSR-type, phase-mod.-pulse multichannel, on line north of Moscow. See 14002 summary.
14094	0438	A2 Jammer-type noise, may be 2f harmonic of 7MHz.
14102	1340-1854	A9. USSR-type, phase-mod.-pulse multichannel. Guard carriers on 14103.23, 14099.82. In line with Siberia.
14110	1202 1609-1638	F1. OXJ de GWK. Commercial-type msg heading. Bearing in line with Cuba, Europe from Curacao.
14112	Most hours.	F1. 500 Hz shift, with transition key-clicks.
14114	1432-1614	A9. USSR-type, phase-mod.-pulse multichannel. Guard carriers 14115.50 and 14112.19 kHz. Toward Siberia.
14117	1525	Logged as USSR-type, p-m-p multichannels but no mention of guard carriers; may be 2f harmonic of MAYAK-overmod. jamming on 7060 Peking.
14120	0001-0500 1300-1800	F1. Reversals, 3 kHz shift, bearing toward Vladivostok.
14125	1532	A1. OES OJV de OKA.
14128	1430	A1 RMPV UMHU de RJS (ship-shore), cyrillic, E. Asia.
14130	1800-0200	2f harmonic of R. Tirana 7065 kHz.
14132	Most hours.	F1. 1/2 and 1 kHz shift, long A0. morse and keyboard RTTY. Uses China digraphs although shift may be similar to USSR.
14136.5	1730-1758	A1. RIT de UCMS. Ship-shore?
14138	1546	A9. USSR-type, p-m-p multichannel. See 14002.
14140	1430-1800	CRFB Toronto BC, harmonic of 1010 kHz.
14140	0100	A4 Helleschreiber FAX. China.
14144	1430-1710	F1. 1 and 2 kHz shift RTTY, separate from A9 signal.
14145	1100-2030	A9. USSR in N. Egypt. p-m-p multi. Two guard carrier at 14143.73 and 14147.01 kHz. See 14002 kHz.
14152	1330-1500	A1. RJS, RMDW, UDNP (ship-shore).
14154	0200-0400	A1. VVV de WAR.

14157	1425	A1. CP 32 de MSJ2.
14165	1430	A1/F1. CP 32 de MH22; key clicks.
14170	1340-1730	A9. USSR-type, p-m-p multich.; guard carriers at 14171.34 for upper side. Not a noise jammer.
14171	1512	F1. RTTY 850 shift. QTE about 90° like Cuba. Spurious Signals 14166.68 14172.53 14174.22 14176.79 kHz.
14174	1521	A1. 2-tone breaking chirp, like Chinese field sets.
14176	1443	A1. 4-letter groups. USSR makes some use of this, but more by China, possibly by encrypting 4-digit groups used for look-up numbers of Chinese character. In one RTTY case, only the same 10 letters were used and they were the characters that had exactly three "mark" bauds.
14180	1449-1906	A1. RIW calling RYD, 4-letter USSR stations. ROD.
14180	1330-1441	F1. Apparently still RYD; toneless, fast RTTY with 1 kHz shift; he also goes to F1 morse.
14183	1100-0500	F1/F6. F1 with 1 kHz shift; F6 with 2 kHz shift in primary channel, upshifting usually for procedure, in F6 Twinplex.
14186	1542	A9. USSR-type p-m-p multich.; guard carriers 14187.3 and 14184.01 kHz. See 14002 kHz for summary.
14192	0345	F1. In line with Vladivostok. 2 kHz shift.
14194	1612-1630	A1. UBF2 de ESRO.
14196/98	0030-0200	A1. NM7F, often with mixed groups (cut digits?)
14199	0045	A3J. Loud music, USB.
14199	1546-1823	F1. 1 kHz shift RTTY tape, about 100-speed. Bearing like Afghanistan.
14199	1448-1721	F1. 2 kHz. shift. JVO de UOA86.
14200	1536	A2. Jammer WZ WZ, presumably a harmonic or spurious.
14204	0001-0030	A1. "CQ de BF5 V" China procedure. Calls MFY, LOZ; 5-letter groups.
14208	0415	A1. RJS, cyrillic morse.
14208	1120-1630	F1. 500-Hz shift RTTY. In line with IRKUTSK.
14217	1230-1900	F1. 500-Hz shift RTTY. In line with Moscow.
14230	2345	A2. 2f harmonic of jammer on 7115 kHz.
14232	0021	A1. Cyrillic morse group, such as RJS group.
14240	2200-0330	Harmonic of R. Peking from 7120 kHz, probably Tirana relay.
14245	2013-2124	A1/F1. OMQ.
14248	0001-0450	A1/F1. 250 and wider shift RTTY. Possible UMS to ships.
14255	1925	Noise, very distorted MAYAK audio, probably 2f of jamming on 7130 kHz.
14260	1350-2120	A3. Noise as on 14255 kHz.
14260/62	1907	A1. 2VO, FPCC.
14280	Most hours.	F1. USSR synchronous encryption, 500 Hz shift, in line with Irkutsk.
14282	1330-1500	A9. USSR-type, p-m-p multich. Guard carriers on 14282.73 and 14279.80 kHz roughly. about 3.2 apart.

14295	1700	A1. KOK (Spurious?).
14295/14305	1445	A2. Apparently 2f harmonic of noise jamming on 7150.
14296	0400-0415	A1. RJS to ships Cyrillic morse. 1328-1745Z.
14300	0345	A3. 2f harmonic of BC station on 7150 kHz.
14303-14313	1330-1400	F1. BQP71 China, moves to avoid 14311 USSR F6 sta.
14316	1330-1921	A9. USSR p-m-p multich. Guard carriers about 14314 and 14317.37 kHz. See 14002 kHz for summary.
14323	1524	A1. Two-tone breaking chirp, like China field sets.
14328	1420	A1. Very loud cyrillic morse, probably not legal "fixed service" USSR station.
14335	1326-1422	A9. See 14002. Guard carriers 14337.38 and 14334.17
14335	1304	A2J. Smooth buzzing tone bearing 150°; also on 14053 13879 13831 13541 on same bearing.
14340	0001-0115	F1. 850 Hz shift RTTY, BAA6/7/8/20/22/24, WX China.
14342	1335-1533	A9. See 14002 kHz. 14343.38 14340.19 guard carriers
14346	0440	F1. Spurious with key clicks on 14345.81 14348.25 14355.1 14355.87 14356.41 kHz, from reversals on 14350.3 and 14352.3 kHz. FCC hears it weakly under another alerted signal from Bermuda on same freq.
14347	1410-0200	A9. a.c. from 30F1 ringer, 20Hz., and Spanish telephone circuit on LINCOMPEX system at Pajas Blancas, Cable & Wireless, Ltd., CVM5, Uruguay, with multiple tones on assigned freq. of 14351.5 kHz.
21008	1713	A1. Cyrillic morse, (possible har. from 10 MHz).
21009	2250	A1. Morse procedure, "QSPO ZRU 10544 QSAØ ZRU 8328"
21013.5	1250	F1. possibly around 1530Z. Text refers to him as "H.N.A." On line from Curacao through Cuba toward Europe. daily signal.
21032	2358	A1. CMU967 "QSX 10876 QSW 8059". Working "UGKJ" Possible 2f harmonic.
21187	0300	A3. Profanity. Can be 75S3 spurious from C.B. or C.B. spurious.
21310	0429	Spurious like F1.
21329	0058	A1. Carrier keyed at about 30 Hz.
28 MHz		Spurious signals apparently from CB'ers: ACM8AQX, KAIN 2497, KAAE 6886, KABB4221, KOA9290, K457.
28650	1455	A3. 3f harmonic from Havana BC.
28734	0033	F1. 2f harmonic from 14367 kHz.
28920	2300-0100	A3. 3f harmonic from VOA Greenville, S.C.
28984	2112-2200	AØ. 2f harmonic from 14492 kHz.
29010	0001-0230	3f harmonic from RNE Spain. A3.
29208/12	2108-2130	F1. 2f Harmonic form 14604/6 kHz.
29265	2245-0330	A3. 3f harmonic from AFRTS 9755 kHz.
29295	2155-0100	A3. 3f harmonic from BBC on 9765 kHz.
29386	1940-2111	A1. 2f harmonic from RIW de COY89 on 14693 kHz.

INTRUDER WATCH ROSTER

N1AB	Kurtz Fichthorn, 166 N. Main St., Southington, CT 06489
W1BMS	William Hall, P.O. Box 158, Friendship, ME 04547
K1CLM	Joseph E. Gaudet, 61 Adele Ave., Haverhill, MA 01830
W1EXZ	Robert A. Curtis, 17 Cobbleview Road, Colchester, VT 05446
WA1FFB	J. Morey Johnson, 145 Holden St., Worcester, MA 01606
K1FKW	D. C. Fairbrother, 20 Rockwell, Winsted, CT 06098
K1KRY	Stanley L. Kugler, 147 Grandview Ave., Waterbury, CT 06705
W1NF	Art E. Ericson, Lock Box 212, Beverly, MA 01915
WA1NME	Robert F. Swiecicki, 47 West Street, Wilmington, MA 01887
WA1POJ	George H. Simmons, 46 Broad St., Warren, RI 02885
K1PR	Mark London, 104 Hilldale Road, West Hartford, CT 06117
WA1PSI	James Pickard, 19 Oak Street, Derry, NH 03038
WA1UZK	John E. Pilson, P.O. Box 27, Saunderstown, RI 02874
W1VV	William R. Lowry, RR 1, Brown's Lane, Old Lyme, CT 06371
W1YR	John A. Pagliarini, Jr., P.O. Box 458, Ocean Bluff, MA 02065
WB2ABD	Paul T. Antos, 170 Maple Avenue, Blasdell, NY 14219
WA2AHN	Kevin R. Bennet, 29 Ridgedale Cir., Rochester, NY 14616
W2CUC	Frank H. Heller, 264 Spout Spring Ave., Mt. Holly, NJ 08060
N2CW	Gary I. Medford, 207 W. 5th St., Ship Bottom, NJ 08008
WB2FUE	David Latter, 179 Pittsford Way, New Providence, NJ 07974
K2GMF	Tom Lopez, 145 Mt. Sinai Ave., Mount Sinai, NY 11766
K2KN	John F. Gallagher, RD #2, Beaver Road, Lagrangeville, NY 12540
N2KR	Karl Rosenbaum, P.O. Box 573, 137 Pine St., E. Moriches, NY 11940
W2MCY	Frank Tracy, 6346 Blue Mt. Rd., Saugerties, NY 12477
WB2MSO	Michael Karp, 83 Onyx Place, Matawan, NJ 07747
K2NA	Laurence A. Eichel, P.O. Box 119, Winter Harbor, ME 04693
N2NN	Raymond A. Simpson, RD 3, Haggerty Rd., Sussex, NJ 07461
W2ODC	Howard L. Lester, P.O. Box 6, Alplaus, NY 12008
W2RS	Raphael Soifer, 60 Waldron Ave., Glen Rock, NJ 07452
WA2RYC	Dave Buda, 18 Nutley Avenue, Nutley, NJ 07110
WB2STZ	Shaun Breidbart, 132 Madison Road, Scarsdale, NY 10583
WB2TFH	George E. Hall, 18 Miller St., Saddle Brook, NJ 07662
W2TO	Hans J. Meurer, 129 Foster Terrace, Ridgewood, NJ 07450
WA2TVX	Don Kemmann, 14 Lucille Drive, Sayville, NY 11782
N2US	Stan Iarosis, 29 Nottingham Way, Mt. Holly, NJ 08060

W2WHB David L. Wiesen, 18 Wilbur Ave., Newark, NJ 07112
WB2WPA Gary Arnold, 183 Snug Harbor Ct., Rochester, NY 14612
WA2YDX Michael Harmon, 2536 Lisa Ct., Bellmore, NY 11710
WA2YEI James T. Schug, 6403 - 72 Street, Middle Village, NY 11379
K3DI Richard L. Wilder, 1022 Omar Drive, Crownsville, MD 21032
N3EE T. C. Vaughn, 453 Hochberg Ave., Pittsburgh, PA 15235
W3FU Dr. Fred J. Friel, P.O. Box 7, Annapolis Jct., MD 20701
WB3FZI Phil Creasy, 525 Dutch Lane, #2, Sharon, PA 16146
W3KSQ Charles R. Nevel, 1017 Tucker St., Williamsport, PA 17701
W3NC Clinton B. Dawes, Trout Run, Lyc City, PA 17771
N3NN/4 A. E. Mehnert, II, 2937 Baldwin Brook Dr., Montgomery, AL 36116
WA3RSK John A. Pierce, 5720 E. Pine Dr., Riverdale, MD 20840
WA3VBM Tim Jellison, 5169 Caste Drive, Pittsburgh, PA 15236
WA3VQE Michael Peters, RD #2, Dillsburgh, PA 17019
N4AR William T. Maxson, Rt. 5, Ashgrove Pike, Nicholasville, KY 40356
W4AX David P. Shafer, Rt. 4, Box 71, Glen Allen, VA 23060
WA4BCP Melvin R. Cochrane, 381 Navarre Dr., Miami Springs, FL 33166
N4BY Charles H. McIntyre, 1510 Nottingham Rd., Pt. Richey, FL 33568
K4CN Edwin M. Hollis, 4311 Marlin Lane, Palmetto, FL 33561
WA4CWA James L. Herron, 400 E. Third Ave., Lenoir City, TN 37771
K4DAS Albert H. Wessel, 6321 NW 1st Ct., Miami, FL 33150
N4DD John L. Barber, 8107 Bright Meadows, Dunn Loring, VA 22027
W4DRF Lee E. Patience, Rt. 2, Box 62-B, Belton, SC 29627
N4EF David A. Grubbs, 2103 Montana St., Orlando, FL 32803
N4FG Fred M. Griffee, 8809 Stark Road, Annandale, VA 22003
N4FL W. F. Lindsey, 3516 NW 39th St., Lauderdale Lakes, FL 33309
WB4HWM F. Clarke Walker, Jr., 1396 Girard Dr., Louisville, KY 40222
W4MML Carrol C. Turner, Jr., 8 NW Ave. D, Apt. 7, Belle Glade, FL 33430
K4MOG Gene F. Greneker, 2546 Wilson Woods Dr. #1, Decatur, GA 30033
W4NFI F. A. Hermanson, 8031 Pine Tree Lane, Lake Clarke Shores, FL 33406
W4OIS Tom C. Adams, Rt. 3, Box 104-H, York, SC 29745
WA4OSH Konrad Roeder, 504 Chippewa Cir., Knoxville, TN 37919
K4OV Ulo Vilms, 109 Palomino Lane, Warner Robins, GA 31093
WB4OXD Thomas L. Gregory, 1252-B Norview Ave., Norfolk, VA 23513
W4OYI George Wilson, 2113 Old Cabin Rd., Owensboro, KY 42301
WA4PRP Floyd F. Backus, 306 Marlin Drive, Richmond, VA 23223

K4SE Bob M. May, II, P.O. Box 30, Jonesboro, TN 37659
W4QM H. Dale Strieter, 928 Trinidad, Cocoa Beach, FL 32931
WB4VAP Clarence W. Mulligan, 150 Coral Cir., So. Daytona, FL 32019
K4VM Martha Colburn, Rt. 2, Box 43, Indian Mound, TN 37079
W4YW Louis B. Lang, 4910 Biltmore Dr., Coral Gables, FL 33146
K4ZN Chuck Clark, c/o Mepkin Abbey, Rt. 3, Box 800, Moncks Corner, SC 29461
K5DEC Walter R. Whitcomb, 911 NW 31st St., Oklahoma City, OK 73118
K5DL J. R. Hudelson, 18106 Widcombe Drive, Houston, TX 77084
W5GEL Bob Douglas, 3435 Floyd St., Corpus Christi, TX 78411
WB5JMZ John H. Ulrey, P.O. Box 846, Quapaw, OK 74363
W5NR Art Hasbrook, 9590 Oakland Rd., San Antonio, TX 78240
W5QPX Gilbert L. Baker, 101 Rita Blanca Trl. Amarillo, TX 79108
WA5QXD Samuel D. Barricklow, 3225 So. Llewellyn Ave., Dallas, TX 75224
WB5UUB James A. Boehm, Jr., 8607 Jones Maltsberger, Apt. 1002, San Antonio, TX 78216
WA6AKQ B. F. Vaage, 17220 Tulsa St., Granada Hills, CA 91344
W6BWG G. Wesley Parr, 8333 E. Bevan St., San Gabriel, CA 91775
W6BYH Leon W. Brammer, 1227 Princeton St., Delano, CA 93215
W6JD Doug Westover, 717 Los Robles, Palo Alto, CA 94306
W6JF Ben B. Jackson, P.O. Box 186, Dana Point, CA 92629
WA6JZZ Rich Darwicki, 17775 Elmhurst Cir., Yorba Linda, CA 92686
K6KA Bill Conklin, Box 1, La Canada, CA 91011
W6MUL John S. Forchtner, 520 Daily Dr., Apt. 211, Camarillo, CA 93010
WA6NSZ Robert E. Harmon, P.O. Box 1891, Hesperia, CA 92345
WB6PKA Steven M. Harrison, 27978 Beechgate Dr., Palos Verdes Peninsula, CA 90274
W6RE Ralph E. Alexander, 12621 Red Hill, Tustin, CA 92680
W6SO A. J. Hopkins, P.O. Box 7372, San Diego, CA 92107
K6XT Aurthor H. Charette, FTG, San Diego, CA 92147
WB6YID Roland Carpenter, P.O. Box 20554, Los Angeles, CA 90006
K6ZFI Robert J. Gunning, 4137 Wheat St., Sacramento, CA 95821
W7ANF James FitzSimons, 425 E. Fillmore St., Tempe, AZ 85281
WB7CFH Leonard Wampole, 6869 S. Stevens St., Tacoma, WA 98409
W7DAN Arlie M. Thomason, Box 32, Gardiner, OR 97441
W7HLF Dwight J. Albright, 1678 Orchard Home Dr., Medford, OR 97501
W7JIE Millard L. Gibson, 1215 N. 28th Place, Renton, WA 98055
K7KK James H. Maynard, 23331 SW Bosky Dell Lane, West Linn, OR 97068

W7KS	Earl D. Crawfis, 2909 E. Grovers Ave., Phoenix, AZ 85032
W7LVU	Gordon Schmehl, 330 E. Fifth St., Casper, WY 82601
W7MME	Eddie B. Scales, 1213 Wilson, Tempe, AZ 85281
WA7OBH	Lee Graves, 17 So. Choteau, Hardin, MT 59034
W8BS	Jon Teetor, 715 Morningside Cir., Marion, OH 43302
W8BU	James L. Russell, 4348 W. 223rd St., Fairview Park, OH 44126
WB8CBO	David B. Skidmore, 3731 Granger Road, Akron, OH 44313
K8DIIJ	Alvin W. Latta, 1264 Ivy NW, No. Canton, OH 44720
W8RV	Charles E. Ziegler, 242 W. Park Blvd., Medina, OH 44256
W8GRP	G. S. Plessinger, 4021 - 22nd St., NW, Canton, OH 44708
W8JMJ	Donald B. Morris, 1136 Morningstar Lane, Fairmont, WV 26554
WB8KLM	Harvey H. Meister, 3969 Delmar Ave., Cincinnati, OH 45211
WB8LJZ	James F. Patterson, P.O. Box 113, River Rouge, MI 48218
W8LZE	Harold Tune, 468 Molane Avenue, Akron, OH 44313
N8OK	Elmo M. Moist, Box 434, Royal Oak, MI 48068
K8PYD	Leo W. Fry, 5740 N. Meadows Blvd., Columbus, OH 43229
K8QWG	Mike Nakoneczny, 21435 Syracuse Street, Warren, MI 48091
W8TXM	William D. Clark, 3638 Cambrey Dr., Lansing, MI 48096
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